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Senior Services Enrichment Center

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23-0000 HVAC Test & Balance Report

ATLANTA TEST & BALANCE INC
3890 HIGHWAY 17
PO BOX 2495
CLARKESVILLE, GA 30523
706-754-0065

Test and Balance Report

For

**NEWTON COUNTY ENRICHMENT CENTER
COVINGTON, GEORGIA**

Mechanical Contractor: MECHANICAL REPAIR SERVICE, INC.

Architect: GM ARCHITECT

Mechanical Engineer: TOTAL ENGINEERS

The data presented in this report is a record of system measurements and final adjustments that have been obtained in accordance with the current edition of the NEBB Procedural Standard for Testing, adjusting and Balancing of Environmental Systems. The measurements shown, and the information given, in this report are certified to be accurate and complete, at the time and date information was gathered. Any variances from design quantities, which exceed NEBB tolerances, are noted in this report.



TAB Supervisor
NEBB Certification no. **3143**
Date: 11/4/2025

Firm Certification Number: 3143

Firm Name: Atlanta Test & Balance Corporation

Certification: Testing, Adjusting and Balancing of Environmental Systems

Certified Professional Name: BRIAN KUKNYO

Expiration Date: 12/31/26




ATLANTA TEST & BALANCE INC
HVAC TESTING & BALANCING

3890 HIGHWAY 17 PO BOX 2495
CLARKESVILLE, GA 30523

Tel. 706-754-0065

PROJECT SUMMARY

CLIENT: MECHANICAL REPAIR SERVICE, INC. DATE: 11/4/2025
JOB: NEWTON CO. ENRICHMENT CENTER JOB #: 25260

	ALL AIR MOVING SYSTEMS HAVE BEEN PROPORTIONATELY
	BALANCED AND MEASURED WITH A SHORTRIDGE AIR DATA
	METER.
	ALL TEMPS, ELECTRICAL AND PRESSURE DATA TAKEN, ARE
	WITHIN ACCEPTABLE RANGES.
	EXCEPTIONS: SEE INDIVIDUAL REPORT PAGES.
	THIS REPORT MEETS ALL REQUIREMENTS FOR A N.E.B.B.
	CERTIFICATION
	

BY: BRIAN KUKNYO

ATLANTA TEST & BALANCE, INC.
3890 Highway 17, PO Box 2495
Clarkesville. Ga 30523

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- B. TEST EQUIPMENT CALIBRATION CERTIFICATES
- C. FIRM CERTIFICATION

ATLANTA TEST & BALANCE INC
 3890 HIGHWAY 17 # 2495, CLARKESVILLE, GA 30523
 Tel 706-754-0065

Project: NEWTON COUNTY ENRICHMENT CTR 25260

AIR MOVING EQUIPMENT TEST SHEET

System	PU-1	AH-1
Equipment Location	PAD	ATTIC
Area Served	KITCHEN	-
Equipment Manufacturer	CAPTIVE AIRE	RHEEM
Model	CAS-HVAC2-1.200-15-10T	RH2TZ3617STANNJ
Serial Number	-	W282431091

	Specified	Actual		Specified	Actual	
Total CFM-Fan	2000	1992		1050	1078	
Total CFM-Outlet	2000	1922		1050	1078	
R/A CFM	1600	1586		900	922	
O/A CFM	400	406		150	156	
Total Static Press.(Total/Ext)	-/1.0	1.37	1.25	-/0.60	0.94	0.6
Inlet Pressure	-	0.41	0.29	-	0.68	0.34
Discharge Pressure	-	0.96		-	0.26	
Fan RPM	-	D.D.		-	D.D.	
EDB / EWB	-/-	68.3 / 62.1		-/-	68.2 / 62.3	
LDB / LWB	-/-	58.9 / 56.2		-/-	58.6 / 56.2	

	Specified	Actual	Specified	Actual
Motor Manufacturer	-	WESTINGHOUSE	-	IMBEDDED
Motor HP	2/1.5	2.0	1/2	1/2
Phase	3	3	1	1
Voltage	230/460	277/278/278	208/240	216
Amperage	5.64/2.82	4.32/4.32/4.32	2.4	2.0
Motor RPM	1745	1745	-	D.D.
Motor Service Factor	1.15	1.15	-	-
Starter Heater Elements	-	-	-	-

Motor Sheave & No. Grooves	D.D.	D.D.
Fan Sheave & No. Grooves	D.D.	D.D.
Belts	D.D.	D.D.

Remarks

ATLANTA TEST & BALANCE INC
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 Tel 706-754-0065

Project: NEWTON COUNTY ENRICHMENT CTR 25260

AIR MOVING EQUIPMENT TEST SHEET

System	AH-2	AH-3
Equipment Location	ATTIC	ATTIC
Area Served	-	-
Equipment Manufacturer	RHEEM	RHEEM
Model	RH2TZ3617STANNJ	RH2TZ2417STANNJ
Serial Number	W282431122	W412480468

	Specified	Actual	Specified	Actual
Total CFM-Fan	1050	1067	700	738
Total CFM-Outlet	1050	1067	700	738
R/A CFM	900	910	600	637
O/A CFM	150	157	100	101
Total Static Press.(Total/Ext)	-/0.60	0.91 0.55	-/0.60	0.48 0.35
Inlet Pressure	-	0.66 0.3	-	0.32 0.19
Discharge Pressure	-	0.25	-	0.16
Fan RPM	-	D.D.	-	D.D.
EDB / EWB	-/-	68.2 / 61.9	-/-	69.1 / 60.1
LDB / LWB	-/-	58.9 / 57.1	-/-	58.3 / 55.9

	Specified	Actual	Specified	Actual
Motor Manufacturer	-	-	-	IMBEDDED
Motor HP	1/2	1/2	1/3	1/3
Phase	1	1	1	1
Voltage	208/240	216	208/240	214
Amperage	2.4	1.9	1.8	1.6
Motor RPM	-	D.D.	-	D.D.
Motor Service Factor	-	-	-	-
Starter Heater Elements	-	-	-	-

Motor Sheave & No. Grooves	D.D.	D.D.
Fan Sheave & No. Grooves	D.D.	D.D.
Belts	D.D.	D.D.

Remarks

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Project: NEWTON COUNTY ENRICHMENT CTR 25260

AIR MOVING EQUIPMENT TEST SHEET

System	AH-4	AH-5
Equipment Location	ATTIC	ATTIC
Area Served	-	-
Equipment Manufacturer	RHEEM	RHEEM
Model	RH2TZ2417STANNJ	RH2TZ3617STANNJ
Serial Number	W412480446	W282431134

	Specified	Actual		Specified	Actual	
Total CFM-Fan	700	676		1050	1038	
Total CFM-Outlet	700	676		1050	1038	
R/A CFM	600	568		950	891	
O/A CFM	100	108		150	147	
Total Static Press.(Total/Ext)	-/0.60	0.41	0.24	-/0.60	0.69	0.42
Inlet Pressure	-	0.28	0.11	-	0.49	0.22
Discharge Pressure	-	0.13		-	0.20	
Fan RPM	-	D.D.		-	D.D.	
EDB / EWB	-/-	68.1 / 62.4		-/-	69.1 / 61.1	
LDB / LWB	-/-	59.9 / 58.0		-/-	58.4 / 56.8	

	Specified	Actual	Specified	Actual
Motor Manufacturer	-	IMBEDDED	-	IMBEDDED
Motor HP	1/3	1/3	1/2	1/2
Phase	1	1	1	1
Voltage	208/240	215	208/240	216
Amperage	1.8	1.3	2.4	1.7
Motor RPM	-	D.D.	-	D.D.
Motor Service Factor	-	-	-	-
Starter Heater Elements	-	-	-	-

Motor Sheave & No. Grooves	D.D.	D.D.
Fan Sheave & No. Grooves	D.D.	D.D.
Belts	D.D.	D.D.

Remarks

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 Tel 706-754-0065

Project: NEWTON COUNTY ENRICHMENT CTR 25260

AIR MOVING EQUIPMENT TEST SHEET

System	AH-6	AH-7
Equipment Location	ATTIC	ATTIC
Area Served	DINING ROOM	-
Equipment Manufacturer	RHEEM	RHEEM
Model	RH2TZ3617STANNJ	RH2TZ3617STANNJ
Serial Number	W412431077	W282431134

	Specified	Actual		Specified	Actual	
Total CFM-Fan	1050	1062		1050	1077	
Total CFM-Outlet	1050	1062		1050	1077	
R/A CFM	950	909		950	926	
O/A CFM	150	153		150	151	
Total Static Press.(Total/Ext)	-/0.60	0.91	0.57	-/0.60	0.94	0.59
Inlet Pressure	-	0.66	0.32	-	0.67	0.32
Discharge Pressure	-	0.25		-	0.27	
Fan RPM	-	D.D.		-	D.D.	
EDB / EWB	-/-	67.9 / 62.2		-/-	68.4 / 63.3	
LDB / LWB	-/-	58.9 / 56.9		-/-	59.4 / 57.1	

	Specified	Actual	Specified	Actual
Motor Manufacturer	-	IMBEDDED	-	IMBEDDED
Motor HP	1/2	1/2	1/2	1/2
Phase	1	1	1	1
Voltage	208/240	217	208/240	217
Amperage	2.4	1.9	2.4	2.0
Motor RPM	-	D.D.	-	D.D.
Motor Service Factor	-	-	-	-
Starter Heater Elements	-	-	-	-

Motor Sheave & No. Grooves	D.D.	D.D.
Fan Sheave & No. Grooves	D.D.	D.D.
Belts	D.D.	D.D.

Remarks

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 Tel 706-754-0065

Project: NEWTON COUNTY ENRICHMENT CTR 25260

AIR MOVING EQUIPMENT TEST SHEET

System	AH-8	ah-9
Equipment Location	ATTIC	ATTIC
Area Served	-	-
Equipment Manufacturer	RHEEM	RHEEM
Model	RH2TZ2417STANNJ	RH2TZ3617STANNJ
Serial Number	w412477048	W282431134

	Specified	Actual	Specified	Actual
Total CFM-Fan	700	714	1050	1087
Total CFM-Outlet	700	714	1050	1087
R/A CFM	600	610	950	929
O/A CFM	100	104	150	158
Total Static Press.(Total/Ext)	-/0.60	0.52 0.34	-/0.60	0.95 0.67
Inlet Pressure	-	0.36 0.18	-	0.67 0.39
Discharge Pressure	-	0.16	-	0.28
Fan RPM	-	D.D.	-	D.D.
EDB / EWB	-/-	68.0 / 60.6	-/-	68.4 / 61.9
LDB / LWB	-/-	58.9 / 56.1	-/-	59.7 / 57.4

	Specified	Actual	Specified	Actual
Motor Manufacturer	-	IMBEDDED	-	IMBEDDED
Motor HP	1/3	1/3	1/2	1/2
Phase	1	1	1	1
Voltage	208/240	217	208/240	216
Amperage	1.8	1.5	2.4	2.1
Motor RPM	-	D.D.	-	D.D.
Motor Service Factor	-	-	-	-
Starter Heater Elements	-	-	-	-

Motor Sheave & No. Grooves	D.D.	D.D.
Fan Sheave & No. Grooves	D.D.	D.D.
Belts	D.D.	D.D.

Remarks

ATLANTA TEST & BALANCE INC
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 Tel. 706-754-0065

Project: NEWTON COUNTY ENRICHMENT CTR 25260

System: AH-3

DIFFUSER & GRILLE TEST SHEET

Room No.	Outlet No.	Code	Size	Effective Area	Design		Actual		%
					FPM	CFM	FPM	CFM	
110	1	DUCT	4"	1.0		30		31	103%
110	2	CD	10"	1.0		210		226	108%
110	3	CD	10"	1.0		205		213	104%
112	4	CD	6"	1.0		50		48	96%
110	5	CD	10"	1.0		205		220	107%
TOTAL								738	

NOTE if effective area = 1.0, velocity information and measurements are not required

Remarks _____

ATLANTA TEST & BALANCE INC
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 TEL 706-754-0065

Project: NEWTON COUNTY ENRICHMENT CTR 25260

FAN DATA SHEET

System	EF-1	EF-2
Equipment Location	CEILING	CEILING
Area Served	120	119
Equipment Manufacturer	GREENHECK	GREENHECK
Model	SP-B150-QD	SP-B150-QD
Serial Number	186347573-0665	199572465-0009

	Specified	Actual	Specified	Actual
Total CFM-Fan	150	156	150	158
Total CFM-Outlet	150	156	150	158
Total Static Press (Total/Ext.)	0.20	0.17	0.20	0.17
Inlet Pressure	-	-	-	-
Discharge Pressure	-	0.17	-	0.17
Fan RPM	-	D.D.	-	D.D.

	Specified	Actual	Specified	Actual
Motor Manufacturer	-	-	-	-
Motor HP	-	-	-	-
Phase	1	1	1	1
Voltage	115	121	115	121
Amperage	1.8	1.1	1.8	1.1
Motor RPM	1050	D.D.	1050	D.D.
Motor Service Factor	-	-	-	-
Starter Heater Elements	-	-	-	-

Motor Sheave & No. Grooves	D.D.	D.D.
Fan Sheave & No. Grooves	D.D.	D.D.
Belts	D.D.	D.D.

Remarks

ATLANTA TEST & BALANCE INC
 3890 HIGHWAY 17 #2495, CLARKESVILLE, GA 30523
 TEL 706-754-0065

Project: NEWTON COUNTY ENRICHMENT CTR 25260

FAN DATA SHEET

System	EF-3	KEF-1
Equipment Location	CEILING	ROOF
Area Served	123	HOOD
Equipment Manufacturer	GREENHECK	CAPTIVE AIRE
Model	SP-B90-QD	DU85HFA
Serial Number	181004980-0034	-

	Specified	Actual	Specified	Actual
Total CFM-Fan	70	73	1500	1553
Total CFM-Outlet	70	73	1500	1553
Total Static Press (Total/Ext.)	0.25	0.01	0.75	0.66
Inlet Pressure	-	-	-	0.66
Discharge Pressure	-	0.01	-	-
Fan RPM	-	D.D.	-	D.D.

	Specified	Actual	Specified	Actual
Motor Manufacturer	-	-	-	TELCO GREEN
Motor HP	-	-	3/4	3/4
Phase	1	1	1	1
Voltage	115	122	115	122
Amperage	0.19	0.12	8.9	6.9
Motor RPM	700	D.D.	1900	1900
Motor Service Factor	-	-	-	-
Starter Heater Elements	-	-	-	-

Motor Sheave & No. Grooves	D.D.	D.D.
Fan Sheave & No. Grooves	D.D.	D.D.
Belts	D.D.	D.D.

Remarks

ATLANTA TEST & BALANCE INC
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 TEL 706-754-0065

Project: NEWTON COUNTY ENRICHMENT CTR 25260

FAN DATA SHEET

System	DEF-1	
Equipment Location	ROOF	
Area Served	DISHWASHER	
Equipment Manufacturer	CAPTIVE AIRE	
Model	DU33HFA	
Serial Number	-	

	Specified	Actual	Specified	Actual
Total CFM-Fan	600	585		
Total CFM-Outlet	600	585		
Total Static Press (Total/Ext.)	0.25	0.26		
Inlet Pressure	-	0.26		
Discharge Pressure	-	-		
Fan RPM	-	D.D.		

	Specified	Actual	Specified	Actual
Motor Manufacturer	-	TELCO GREEN		
Motor HP	1/2	1/3		
Phase	1	1		
Voltage	115	121		
Amperage	4.3	3.6		
Motor RPM	2000	2000		
Motor Service Factor	-	-		
Starter Heater Elements	-	-		

Motor Sheave & No. Grooves	D.D.	
Fan Sheave & No. Grooves	D.D.	
Belts	D.D.	

Remarks



Certification

BRIAN KUKNYO

**HAS MET ALL REQUIREMENTS FOR NEBB CERTIFIED PROFESSIONAL
STATUS IN THE FOLLOWING DISCIPLINE**

Testing, Adjusting and Balancing of Environmental Systems

This Certificate, as well as individual affiliation with a NEBB Certified Firm and associated NEBB Certification Stamp are REQUIRED to provide a NEBB Certified Report. Participation in the NEBB Quality Assurance Program requires the Certificant be affiliated with a NEBB Certified Firm

CP-23702

NEBB Certification Number

December 31, 2026

Expiration Date

NEBB President

NEBB President-Elect



Firm Certification

ATLANTA TEST & BALANCE CORPORATION

HAS MET ALL REQUIREMENTS FOR NEBB CERTIFIED
STATUS IN THE FOLLOWING DISCIPLINE

Testing, Adjusting and Balancing of Environmental Systems

3143

NEBB Certification Number

December 31, 2026

Expiration Date

Handwritten signature of Michael J. Kelly in black ink.

NEBB President

Handwritten signature of Rocky F. Anderson in black ink.

NEBB President-Elect



Certificate of Calibration

Company Information		Equipment Information		Event Result:	PASS
ATLANTA TEST & BALANCE		ID Number:	M09529	As Found:	PASS
3890 HIGHWAY 17		Manufacturer:	Shortridge	As Left:	PASS
CLARKSVILLE, GEORGIA 30523		Model:	ADM-860C	Issue Date:	03/28/2025
Order:	WO38256	Serial Number:	M09529	Cal Date:	03/28/2025
PO Number:	ATB03202025	Alternate I.D.:		Due Date:	03/28/2026
Gage Location:	NONE SPECIFIED	Description:	AIRDATA MULTIMETER	Environment:	Temp: 70 °F RH: 40 %
Cal Location:	LAB			Size / Range:	0 TO 60 INH2O

Event Result: PASS - Gage Meets Specifications / FAIL - Gage did not meet specifications / LTD - Limited Calibration / ADJ - Passed after adjustment / ROV - Report of Value

Notes & Comments:

Asset Notes:

Comments:

Expanded Uncertainty Details:

± 0.0018% of Reading + 0.28 inH2O

Standards Used:

Asset/Standard	Description	Serial Number	Cal Date	Due Date
JJM001	Thermo Hygrometer	SY52D16608077	9/3/2024	9/30/2025
RA0667	PRESSURE LOOP CALIBRATOR	12262987	8/22/2024	8/31/2025

Procedures Used:

Name	Description	Rev Level	Rev Date
P-101	PRESSURE GAGE	3.40	5/25/2021

Test Points:		Pressure		Checkpoints Marked: A = Adjusted, F = Out of Tolerance		
Seq.	Standard.	UOM	Tolerance -	Tolerance +	As Found	As Left
1	12.0000	inH2O	11.7590	12.2410	11.9800	11.9800
2	24.0000	inH2O	23.5190	24.4810	23.9500	23.9500
3	36.0000	inH2O	35.2790	36.7210	35.8900	35.8900
4	48.0000	inH2O	47.0390	48.9610	47.9300	47.9300
5	60.0000	inH2O	58.7990	61.2010	59.8600	59.8600
6	12.0000	inH2O	11.7590	12.2410	11.9700	11.9700

Transcat is accredited by ANSI National Accreditation Board to ISO/IEC 17025:2017 and ANSI/NCSL Z540-1-1994. Transcat certifies that the above listed instrument at the time of calibration meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). The calibrations within the certificate are traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or through NIST accepted intrinsic standards of measurement, or derived by the ratio type of self-calibration techniques. This calibration complies with ANSI/NCSL Z540-1-1994 and ISO/IEC 17025:2017. The measurement results relate only to the items tested or calibrated. Transcat is responsible for all information within the certificate except for customer provided information. Customer provided data is clearly identified. Transcat is not responsible for any effects that customer provided data has on the results. Measurement uncertainties are calculated in accordance with the method described in EA-4/02 and NIST TN1297 using a coverage factor of k = 2, corresponding to a confidence level of approximately 95%. Uncertainties were not considered in all Pass / Fail criteria. This report may not be reproduced, except in full, unless permission for the publication of an approved abstract is obtained in writing from the calibration organization issuing this report.

Calibrated At:

Facility Responsible:

Calibrated By:

Reviewed By:

11402 Reading Road
Cincinnati, OH 45241

11402 Reading Road
Cincinnati, OH 45241

Electronically Signed By:

JAMES MILLS
CALIBRATION TECHNICIAN - 3/28/2025 12:15:28 PM

Electronically Signed By:

Rebecca Kramer
CALIBRATION TECHNICIAN - 3/28/2025 2:09:25 PM

Shortridge Instruments, Inc. HydroData Multimeter Calibration Equipment

Order Number: 241130 Serial Number: W24104 Test Type: Initial As-Received Final

DIFFERENTIAL / GAGE PRESSURE STANDARDS

HDM #01-L	S/N: 41744/42459	Heise Model: PPM-1	Mfgd by Dresser Industries	Calibrated by Ashcroft	Calibration Date: 09/30/24	Due Date: 09/2025
HDM #03-L	S/N: 41745/42460	Heise Model: PPM-1	Mfgd by Dresser Industries	Calibrated by Ashcroft	Calibration Date: 08/01/24	Due Date: 07/2025
HDM #11-L	S/N: 45651/48600	Heise Model: PPM-1	Mfgd & Calibrated by Ashcroft, Inc.		Calibration Date: 04/24/24	Due Date: 04/2025
Rated Accuracy: 0.06% fs		Range: 0.0 to 15.0 in wc	Resolution: 0.001 in wc		Uncertainty: < 0.00651 in wc	
Used at Set Points: 3.0; 14.0 for all models.						
HDM #01-R	S/N: 41744/42457-1	Heise Model: PPM-1	Mfgd by Dresser Industries	Calibrated by Ashcroft	Calibration Date: 10/01/24	Due Date: 09/2025
HDM #03-R	S/N: 41745/42458	Heise Model: PPM-1	Mfgd by Dresser Industries	Calibrated by Ashcroft	Calibration Date: 08/02/24	Due Date: 07/2025
HDM #11-R	S/N: 45651/48599	Heise Model: PPM-1	Mfgd & Calibrated by Ashcroft, Inc.		Calibration Date: 04/25/24	Due Date: 04/2025
Rated Accuracy: 0.06% fs		Range: 0.0 to 150.0 in wc	Resolution: 0.01 in wc		Uncertainty: < 0.07540 in wc	
Used at Set Points: 25.0; 31.0; 140.0 for all models.						
HDM #02-L	S/N: 41747/42464	Heise Model: PPM-2	Mfgd by Dresser Industries	Calibrated by Ashcroft	Calibration Date: 09/26/24	Due Date: 09/2025
HDM #04A-L	S/N: 44806/47224	Heise Model: PPM-2	Mfgd & Calibrated by Ashcroft, Inc.		Calibration Date: 07/30/24	Due Date: 07/2025
HDM #12-L	S/N: 45652/48602	Heise Model: PPM-2	Mfgd & Calibrated by Ashcroft, Inc.		Calibration Date: 04/22/24	Due Date: 04/2025
Rated Accuracy: 0.05% fs		Range: 0.0 to 1400 in wc	Resolution: 0.1 in wc		Uncertainty: < 0.479 in wc	
Used at Set Points: 225.0; 275.0; 1025 for HDM-250 and HDM-300 Used at Set Points: 250.0; 305.0 for HDM-150						
HDM #02-R	S/N: 41747/42462	Heise Model: PPM-2	Mfgd by Dresser Industries	Calibrated by Ashcroft	Calibration Date: 09/26/24	Due Date: 09/2025
HDM #04A-R	S/N: 44806/47216	Heise Model: PPM-2	Mfgd & Calibrated by Ashcroft, Inc.		Calibration Date: 07/30/24	Due Date: 07/2025
HDM #12-R	S/N: 45652/48601	Heise Model: PPM-2	Mfgd & Calibrated by Ashcroft, Inc.		Calibration Date: 04/22/24	Due Date: 04/2025
Rated Accuracy: 0.05% fs		Range: 0.0 to 8320 in wc	Resolution: 1 in wc		Uncertainty: < 2.77 in wc	
Used at Set Points: 1620; 2000; 4500; 6930 for HDM-250 Used at Set Points: 1620; 2000; 4500; 8300 for HDM-300 Used at Set Points: 2000; 4150 for HDM-150						

TEMPERATURE STANDARDS

RTD Simulator	S/N: 249	Model RTD-1000/500	Mfgd by General Resistance	Calibrated by IET Labs	Calibration Date: 04/11/24	Due Date: 04/2028
RTD Simulator	S/N: 250	Model RTD-1000/500	Mfgd by General Resistance	Calibrated by IET Labs	Calibration Date: 04/11/24	Due Date: 04/2028
RTD Simulator	S/N: 253	Model RTD-1000/500	Mfgd by General Resistance	Calibrated by IET Labs	Calibration Date: 04/11/24	Due Date: 04/2028
RTD Simulator	S/N: 254	Model RTD-1000/500	Mfgd by General Resistance	Calibrated by IET Labs	Calibration Date: 08/20/24	Due Date: 08/2028
RTD Simulator	S/N: 256	Model RTD-1000/500	Mfgd by General Resistance	Calibrated by IET Labs	Calibration Date: 08/20/24	Due Date: 08/2028
RTD Simulator	S/N: 257	Model RTD-1000/500	Mfgd by General Resistance	Calibrated by IET Labs	Calibration Date: 08/20/24	Due Date: 08/2028
RTD Simulator	S/N: 292	Model RTD-1000/500	Mfgd by General Resistance	Calibrated by IET Labs	Calibration Date: 01/15/24	Due Date: 01/2028
RTD Simulator	S/N: 293	Model RTD-1000/500	Mfgd by General Resistance	Calibrated by IET Labs	Calibration Date: 01/15/24	Due Date: 01/2028
RTD Simulator	S/N: 294	Model RTD-1000/500	Mfgd by General Resistance	Calibrated by IET Labs	Calibration Date: 01/15/24	Due Date: 01/2028
RTD Simulator	S/N: 313	Model RTD-1000/500	Mfgd by General Resistance	Calibrated by IET Labs	Calibration Date: 03/25/22	Due Date: 03/2026
RTD Simulator	S/N: 314	Model RTD-1000/500	Mfgd by General Resistance	Calibrated by IET Labs	Calibration Date: 03/25/22	Due Date: 03/2026
RTD Simulator	S/N: 315	Model RTD-1000/500	Mfgd by General Resistance	Calibrated by IET Labs	Calibration Date: 03/25/22	Due Date: 03/2026
RTD Simulator	S/N: 316	Model RTD-1000/500	Mfgd by General Resistance	Calibrated by IET Labs	Calibration Date: 06/06/22	Due Date: 05/2026
RTD Simulator	S/N: 317	Model RTD-1000/500	Mfgd by General Resistance	Calibrated by IET Labs	Calibration Date: 05/23/22	Due Date: 05/2026
RTD Simulator	S/N: 318	Model RTD-1000/500	Mfgd by General Resistance	Calibrated by IET Labs	Calibration Date: 05/23/22	Due Date: 05/2026
Rated Accuracy: 0.025% of setting		Range: 100.00 Ω to 11111.10 Ω	Resolution: 0.01 Ω		Uncertainty: ≤ 32 ppm	

Thermometer #1	S/N 8A089/Thermistor	S/N A410660	Model 1504/5610	Mfgd by Hart Scientific	Calibrated by Fluke	Calibration Date: 04/09/24	Due Date: 04/2026
Thermometer #2	S/N 8B104/Thermistor	S/N 871507	Model 1504/5610	Mfgd by Hart Scientific	Calibrated by Fluke	Calibration Date: 12/07/22	Due Date: 11/2024
Thermometer #5	S/N B11780/Thermistor	S/N B10505	Model 1504/5610	Mfgd by Hart Scientific	Calibrated by Fluke	Calibration Date: 06/27/24	Due Date: 06/2026
Thermometer #6	S/N B11782/Thermistor	S/N B10509	Model 1504/5610	Mfgd by Hart Scientific	Calibrated by Fluke	Calibration Date: 09/21/24	Due Date: 09/2026
Thermometer #7	S/N B49938/Thermistor	S/N B482202	Model 1504/5610	Mfgd and Calibrated by Fluke		Calibration Date: 02/05/24	Due Date: 02/2026
Rated Accuracy (combined): 0.0324° F		Range: 32° F to 176° F	Resolution: 0.001° F		Combined Uncertainty with Baths: ≤ 0.040° F		

Temp Transfer Standard	S/N M00136	Model ADM-870	Mfgd & Calibrated by Shortridge Instruments, Inc.	Calibration Date: 10/25/24	Due Date: 10/2025
Temp Transfer Standard	S/N M96100	Model ADM-870	Mfgd & Calibrated by Shortridge Instruments, Inc.	Calibration Date: 03/21/24	Due Date: 03/2025
Rated Accuracy: 0.03° F		Range: 33° F to 158° F	Resolution: 0.01° F		Uncertainty: < 0.023° F
Total combined Uncertainty for MultiTemp and TemProbe testing : ≤ 0.046° F					

This form must remain with the Certificate of Calibration corresponding to the Order Number listed above.

Shortridge Instruments, Inc.
 7855 East Redfield Road Scottsdale, Arizona 85260
 (480) 991-6744 • Fax (480) 443-1267 • www.shortridge.com

Customer: ATLANTA TEST & BALANCE, INC. City: CLARKESVILLE State: GA

Model #: HDM-250 PO #: _____ Calibration Due Date: _____ Order #: 241130

Rh 27 % Ambient Temperature 68 °F Barometric Pressure 28.64 in Hg

HDM Pressure Standard Heise #1-L	Used at Set Points: 3.0; 14.0	S/N 41744/42459	_____
HDM Pressure Standard Heise #3-L	Used at Set Points: 3.0; 14.0	S/N 41745/42460	_____
HDM Pressure Standard Heise #11-L	Used at Set Points: 3.0; 14.0	S/N 45651/48600	_____ ✓
HDM Pressure Standard Heise #1-R	Used at Set Points: 25.0; 31.0; 140.0	S/N 41744/42457-1	_____
HDM Pressure Standard Heise #3-R	Used at Set Points: 25.0; 31.0; 140.0	S/N 41745/42458	_____
HDM Pressure Standard Heise #11-R	Used at Set Points: 25.0; 31.0; 140.0	S/N 45651/48599	_____ ✓
HDM Pressure Standard Heise #2-L	Used at Set Points: 225.0; 275.0; 1025	S/N 41747/42464	_____
HDM Pressure Standard Heise #4A-L	Used at Set Points: 225.0; 275.0; 1025	S/N 44806/47224	_____
HDM Pressure Standard Heise #12-L	Used at Set Points: 225.0; 275.0; 1025	S/N 45652/48602	_____ ✓
HDM Pressure Standard Heise #2-R	Used at Set Points: 1620; 2000; 4500; 6930	S/N 41747/42462	_____
HDM Pressure Standard Heise #4A-R	Used at Set Points: 1620; 2000; 4500; 6930	S/N 44806/47216	_____
HDM Pressure Standard Heise #12-R	Used at Set Points: 1620; 2000; 4500; 6930	S/N 45652/48601	_____ ✓

DIFFERENTIAL PRESSURE TEST (in wc)
TEST METER TOLERANCE = ± 2.0 % ± 0.3 in wc

Approx Set Pt	Standard	Test Meter	% Diff
3.0	3.06	3.0	-1.96
14.0	14.03	14.1	.50
25.0	25.03	25.1	.28
31.0	31.00	31.2	.65
140.0	143.36	142.2	-.81
225.0	226.3	225.6	-.31
275.0	283.0	282.7	-.11
1025	1031.3	1028	-.32
1620	1654	1641	-.79
2000	2000	2000	.00
4500	4523	4502	-.46
6930	6953	6916	-.53

GAGE PRESSURE (P₂) TEST (in wc)
TEST METER TOLERANCE = ± 2.0 % ± 0.3 in wc

Approx Set Pt	Standard	Test Meter	% Diff
3.0	3.05	3.0	-1.64
14.0	14.03	14.1	.50
25.0	25.03	25.2	.68
31.0	31.00	31.2	.65
140.0	143.11	142.8	-.22
225.0	225.1	225.6	.22
275.0	282.0	282.9	.32
1025	1032.7	1032	-.07
1620	1656	1647	-.54
2000	2049	2044	-.24
4500	4537	4527	-.22
6930	6980	6964	-.23

Shortridge Instruments, Inc.
7855 East Redfield Road Scottsdale, Arizona 85260
(480) 991-6744 • Fax (480) 443-1267 • www.shortridge.com

HDM-250 HYDRODATA MULTIMETER CERTIFICATE OF CALIBRATION

S/N: W 24104
Order #: 241130

TEMPERATURE TEST - HYDRODATA MULTIMETER (° F) TEST METER TOLERANCE = ± 0.2° F

RTD Simulator: S/N 249	Set Point: 35.6° F 95° F 154.4° F
RTD Simulator: S/N 250	Set Point: 35.6° F 95° F 154.4° F
RTD Simulator: S/N 253	Set Point: 35.6° F 95° F 154.4° F
RTD Simulator: S/N 254	Set Point: 35.6° F 95° F 154.4° F
RTD Simulator: S/N 256	Set Point: 35.6° F 95° F 154.4° F
RTD Simulator: S/N 257	Set Point: 35.6° F 95° F 154.4° F
RTD Simulator: S/N 292	Set Point: 35.6° F 95° F 154.4° F
RTD Simulator: S/N 293	Set Point: 35.6° F 95° F 154.4° F
RTD Simulator: S/N 294	Set Point: 35.6° F 95° F 154.4° F
RTD Simulator: S/N 313	Set Point: 35.6° F 95° F 154.4° F
RTD Simulator: S/N 314	Set Point: 35.6° F 95° F 154.4° F
RTD Simulator: S/N 315	Set Point: 35.6° F 95° F 154.4° F
RTD Simulator: S/N 316	Set Point: 35.6° F 95° F 154.4° F
RTD Simulator: S/N 317	Set Point: 35.6° F 95° F 154.4° F
RTD Simulator: S/N 318	Set Point: 35.6° F 95° F 154.4° F

RTD Simulator Temperature Equivalent Set Point	Test Meter	Diff
35.60	35.7	.1
95.00	95.1	.1
154.40	154.3	-.1

All meters are set to zero prior to taking pressure readings.

NOTES: _____

Procedure used: Procedure for Differential Pressure, Gage Pressure, and Temperature Calibration of HydroData Multimeters SIP-CP10 Revision: 05
 Dated: 07/31/14. There were no additions to or deviations from the specified calibration procedure during the calibration process.

This instrument has been calibrated using Calibration Standards which are traceable to NIST (National Institute of Standards and Technology). Calibration accuracy ratio is 4:1 for pressures and temperature. Quality Assurance Program and calibration procedures meet the requirements for ANSI/NCSL Z540-1, ISO 17025, MIL-STD 45662A and manufacturer's specifications. Calibration accuracy is certified when meters are used with properly functioning accessories only. Uncertainties are expressed in expanded terms (twice the calculated uncertainty). This report shall not be reproduced, except in full, without the written approval of Shortridge Instruments, Inc. Results relate only to the item calibrated.

Limitations on use: See Shortridge Instruments, Inc. Instruction Manual for the use of HydroData Multimeters

The enclosed HDM Calibration Standards form is an integral part of this calibration and must remain with this Certificate of Calibration. Any calibration due date shown is specified by the customer.

Calibration Technician(s): B. Lu Calibration Date: 11/21/2024

Calibration Approved by: A. Babb Title: Cal Super Date: 11/21/2024

Shortridge Instruments, Inc.
 7855 East Redfield Road Scottsdale, Arizona 85260
 (480) 991-6744 • Fax (480) 443-1267 • www.shortridge.com



Certificate of Calibration

Calibrated At:

11402 Reading Road
Cincinnati, OH 45241

Facility Responsible:

11402 Reading Road
Cincinnati, OH 45241

Calibrated By:

Electronically Signed By:

JAMES MILLS

CALIBRATION TECHNICIAN - 3/28/2025 10:44:34 AM

Reviewed By:

Electronically Signed By:

Megan Guyer

Assistant Service Manager - 4/11/2025 4:07:26 PM



Certificate of Calibration

Company Information		Equipment Information		Event Result:	PASS
ATLANTA TEST & BALANCE		ID Number:	4011-3	As Found:	PASS
3890 HIGHWAY 17		Manufacturer:	Cooper Instrument	As Left:	PASS
CLARKSVILLE, GEORGIA 30523		Model:	4011	Issue Date:	03/28/2025
Order:	WO38256	Serial Number:	N/A	Cal Date:	03/28/2025
PO Number:	ATB03202025	Alternate I.D.:		Due Date:	03/28/2026
Gage Location:	NONE SPECIFIED	Description:	TEMPERATURE PROBE	Environment:	Temp: 71 °F RH: 38 %
Cal Location:	LAB			Size / Range:	-25 to 212 °F

Event Result: PASS - Gage Meets Specifications / FAIL - Gage did not meet specifications / LTD - Limited Calibration / ADJ - Passed after adjustment / ROV - Report of Value

Notes & Comments: **Calibrated to: Manufacturer Specification**

Asset Notes: Comments:

Expanded Uncertainty Details:

± (0.14 + 0.0016T) °F

Standards Used:

Asset/Standard	Description	Serial Number	Cal Date	Due Date
JJM001	Thermo Hygrometer	SY52D16608077	9/3/2024	9/30/2025
RA0680	Temperature Bath	A99336	8/9/2024	8/31/2025

Procedures Used:

Name	Description	Rev Level	Rev Date
P-102	TEMPERATURE DEVICES	2.50	5/25/2021

Test Points: Contact Probe Checkpoints Marked: A = Adjusted, F = Out of Tolerance

Seq.	Standard	UOM	Tolerance -	Tolerance +	As Found	As Left	Description
1	32.000	°F	30.000	34.000	32.1	32.1	PN: 4011
2	150.000	°F	148.000	152.000	150.0	150.0	PN: 4011
3	200.000	°F	198.000	202.000	200.4	200.4	PN: 4011

Transcat is accredited by ANSI National Accreditation Board to ISO/IEC 17025:2017 and ANSI/NCSL Z540-1-1994. Transcat certifies that the above listed instrument at the time of calibration meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). The calibrations within the certificate are traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or through NIST accepted intrinsic standards of measurement, or derived by the ratio type of self-calibration techniques. This calibration complies with ANSI/NCSL Z540-1-1994 and ISO/IEC 17025:2017. The measurement results relate only to the items tested or calibrated. Transcat is responsible for all information within the certificate except for customer provided information. Customer provided data is clearly identified. Transcat is not responsible for any effects that customer provided data has on the results. Measurement uncertainties are calculated in accordance with the method described in EA-4/02 and NIST TN1297 using a coverage factor of k = 2, corresponding to a confidence level of approximately 95%. Uncertainties were not considered in all Pass / Fail criteria. This report may not be reproduced, except in full, unless permission for the publication of an approved abstract is obtained in writing from the calibration organization issuing this report.

Calibrated At: 11402 Reading Road Cincinnati, OH 45241	Facility Responsible: 11402 Reading Road Cincinnati, OH 45241	Calibrated By: <input checked="" type="checkbox"/> Electronically Signed By: <u>JAMES MILLS</u> CALIBRATION TECHNICIAN - 3/28/2025 10:44:34 AM	Reviewed By: <input checked="" type="checkbox"/> Electronically Signed By: <u>Rebecca Kramer</u> CALIBRATION TECHNICIAN - 3/28/2025 2:07:42 PM
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Certificate of Calibration

Company Information		Equipment Information		Event Result:	PASS
ATLANTA TEST & BALANCE		ID Number:	1075-3	As Found:	PASS
3890 HIGHWAY 17		Manufacturer:	Cooper Instrument	As Left:	PASS
CLARKSVILLE, GEORGIA 30523		Model:	1075	Issue Date:	03/28/2025
Order:	WO38256	Serial Number:	N/A	Cal Date:	03/28/2025
PO Number:	ATB03202025	Alternate I.D.:		Due Date:	03/28/2026
Gage Location:	NONE SPECIFIED	Description:	Temperature Probe	Environment:	Temp: 71 °F RH: 38 %
Cal Location:	LAB			Size / Range:	-40 to 300 °F

Event Result: PASS - Gage Meets Specifications / FAIL - Gage did not meet specifications / LTD - Limited Calibration / ADJ - Passed after adjustment / ROV - Report of Value

Notes & Comments: **Calibrated to: Manufacturer Specification**

Asset Notes: Comments:

Expanded Uncertainty Details:

± (0.14 + 0.0016T) °F

Standards Used:

Asset/Standard	Description	Serial Number	Cal Date	Due Date
JJM001	Thermo Hygrometer	SY52D16608077	9/3/2024	9/30/2025
RA0680	Temperature Bath	A99336	8/9/2024	8/31/2025

Procedures Used:

Name	Description	Rev Level	Rev Date
P-102	TEMPERATURE DEVICES	2.50	5/25/2021

Test Points: Immersion Probe Checkpoints Marked: A = Adjusted, F = Out of Tolerance

Seq.	Standard	UOM	Tolerance -	Tolerance +	As Found	As Left	Description
1	32.000	°F	31.700	32.300	32.2	32.2	PN: 1075
2	150.000	°F	149.250	150.750	150.0	150.0	PN: 1075
3	250.000	°F	248.750	251.250	249.9	249.9	PN: 1075

Transcat is accredited by ANSI National Accreditation Board to ISO/IEC 17025:2017 and ANSI/NCSL Z540-1-1994. Transcat certifies that the above listed instrument at the time of calibration meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). The calibrations within the certificate are traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or through NIST accepted intrinsic standards of measurement, or derived by the ratio type of self-calibration techniques. This calibration complies with ANSI/NCSL Z540-1-1994 and ISO/IEC 17025:2017. The measurement results relate only to the items tested or calibrated. Transcat is responsible for all information within the certificate except for customer provided information. Customer provided data is clearly identified. Transcat is not responsible for any effects that customer provided data has on the results. Measurement uncertainties are calculated in accordance with the method described in EA-4/02 and NIST TN1297 using a coverage factor of k = 2, corresponding to a confidence level of approximately 95%. Uncertainties were not considered in all Pass / Fail criteria. This report may not be reproduced, except in full, unless permission for the publication of an approved abstract is obtained in writing from the calibration organization issuing this report.

Calibrated At: 11402 Reading Road Cincinnati, OH 45241	Facility Responsible: 11402 Reading Road Cincinnati, OH 45241	Calibrated By: <input checked="" type="checkbox"/> Electronically Signed By: <u>JAMES MILLS</u> CALIBRATION TECHNICIAN - 3/28/2025 10:44:34 AM	Reviewed By: <input checked="" type="checkbox"/> Electronically Signed By: <u>Rebecca Kramer</u> CALIBRATION TECHNICIAN - 3/28/2025 2:07:14 PM
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Certificate of Calibration

Test Points:		Resistance			Checkpoints Marked: A = Adjusted, F = Out of Tolerance		
Seq.	Standard	UOM	Tolerance -	Tolerance +	As Found	As Left	
14	100.0	Ohm	98.0	102.0	100.0	100.0	
15	200.0	Ohm	196.0	204.0	199.9	199.9	

Transcat is accredited by ANSI National Accreditation Board to ISO/IEC 17025:2017 and ANSI/NCCL Z540-1-1994. Transcat certifies that the above listed instrument at the time of calibration meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). The calibrations within the certificate are traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or through NIST accepted intrinsic standards of measurement, or derived by the ratio type of self-calibration techniques. This calibration complies with ANSI/NCCL Z540-1-1994 and ISO/IEC 17025:2017. The measurement results relate only to the items tested or calibrated. Transcat is responsible for all information within the certificate except for customer provided information. Customer provided data is clearly identified. Transcat is not responsible for any effects that customer provided data has on the results. Measurement uncertainties are calculated in accordance with the method described in EA-4/02 and NIST TN1297 using a coverage factor of $k = 2$, corresponding to a confidence level of approximately 95%. Uncertainties were not considered in all Pass / Fail criteria. This report may not be reproduced, except in full, unless permission for the publication of an approved abstract is obtained in writing from the calibration organization issuing this report.

Calibrated At:
11402 Reading Road
Cincinnati, OH 45241

Facility Responsible:
11402 Reading Road
Cincinnati, OH 45241

Calibrated By:
 Electronically Signed By:
SEAN BRADY
CALIBRATION TECHNICIAN - 3/28/2025 9:35:44 AM

Reviewed By:
 Electronically Signed By:
Rebecca Kramer
CALIBRATION TECHNICIAN - 3/28/2025 12:36:12 PM



Certificate of Calibration

Company Information		Equipment Information		Event Result:	PASS
ATLANTA TEST & BALANCE		ID Number:	51772491MV	As Found:	PASS
3890 HIGHWAY 17		Manufacturer:	Fluke	As Left:	PASS
CLARKSVILLE, GEORGIA 30523		Model:	323	Issue Date:	03/28/2025
Order:	WO38256	Serial Number:	51772491MV	Cal Date:	03/28/2025
PO Number:	ATB03202025	Alternate I.D.	N/A	Due Date:	03/28/2026
Gage Location:	NONE SPECIFIED	Description:	TRUE RMS CLAMP METER	Environment:	Temp: 71 °F RH: 37 %
Cal Location:	LAB			Size / Range:	AS LISTED

Event Result: PASS - Gage Meets Specifications / FAIL - Gage did not meet specifications / LTD - Limited Calibration / ADJ - Passed after adjustment / ROV - Report of Value

Notes & Comments:

Asset Notes:

Comments:

Expanded Uncertainty Details:

± (0.022 + 0.00034X) VAC ± (0.0024 + 0.00004X) Ω
 ± (0.0017 + 0.000022X) VDC ± (0.57 + 0.0062X) AAC

Standards Used:

Asset/Standard	Description	Serial Number	Cal Date	Due Date
RA0071	Multi-Product Calibrator	6310012	4/18/2024	4/30/2025
RA0661	Thermo Hygrometer	N/A	12/2/2024	12/31/2025

Procedures Used:

Name	Description	Rev Level	Rev Date
P-128	CURRENT METERS	1.00	8/6/2019

Test Points: DC Voltage

Checkpoints Marked: A = Adjusted, F = Out of Tolerance

Seq.	Standard	UOM	Tolerance -	Tolerance +	As Found	As Left
1	10.0	VDC	9.8	10.2	10.0	10.0
2	100.0	VDC	99.3	100.7	100.1	100.1
3	250.0	VDC	248.3	251.7	250.4	250.4
4	500.0	VDC	497.3	502.7	501.1	501.1

Test Points: AC Voltage @ 60 Hz

Checkpoints Marked: A = Adjusted, F = Out of Tolerance

Seq.	Standard	UOM	Tolerance -	Tolerance +	As Found	As Left
5	10.0	VAC	9.8	10.2	10.0	10.0
6	100.0	VAC	98.2	101.8	100.2	100.2
7	250.0	VAC	246.8	253.2	250.6	250.6
8	500.0	VAC	494.2	505.8	501.4	501.4

Test Points: AC Current @ 60 Hz

Checkpoints Marked: A = Adjusted, F = Out of Tolerance

Seq.	Standard	UOM	Tolerance -	Tolerance +	As Found	As Left
9	10.0	AAC	9.7	10.3	10.1	10.1
10	50.0	AAC	48.4	51.6	50.3	50.3
11	100.0	AAC	97.3	102.7	100.6	100.6
12	200.0	AAC	195.6	204.4	201.5	201.5

Test Points: Resistance

Checkpoints Marked: A = Adjusted, F = Out of Tolerance

Seq.	Standard	UOM	Tolerance -	Tolerance +	As Found	As Left
13	40.0	Ohm	39.2	40.8	40.0	40.0



Certificate of Calibration

accepted intrinsic standards of measurement, or derived by the ratio type of self-calibration techniques. This calibration complies with ANSI/NC SL Z540-1-1994 and ISO/IEC 17025:2017. The measurement results relate only to the items tested or calibrated. Transcat is responsible for all information within the certificate except for customer provided information. Customer provided data is clearly identified. Transcat is not responsible for any effects that customer provided data has on the results. Measurement uncertainties are calculated in accordance with the method described in EA-4/02 and NIST TN1297 using a coverage factor of $k = 2$, corresponding to a confidence level of approximately 95%. Uncertainties were not considered in all Pass / Fail criteria. This report may not be reproduced, except in full, unless permission for the publication of an approved abstract is obtained in writing from the calibration organization issuing this report.

Calibrated At:

11402 Reading Road
Cincinnati, OH 45241

Facility Responsible:

11402 Reading Road
Cincinnati, OH 45241

Calibrated By:

Electronically Signed By:

JAMES MILLS

CALIBRATION TECHNICIAN - 3/28/2025 10:44:34 AM

Reviewed By:

Electronically Signed By:

Rebecca Kramer

CALIBRATION TECHNICIAN - 3/31/2025 12:53:06 PM



Certificate of Calibration

Company Information		Equipment Information		Event Result:	PASS
ATLANTA TEST & BALANCE		ID Number:	DT-10S	As Found:	PASS
3890 HIGHWAY 17		Manufacturer:	DigT	As Left:	PASS
CLARKSVILLE, GEORGIA 30523		Model:	DT-10S	Issue Date:	03/28/2025
Order:	WO38256	Serial Number:	N/A	Cal Date:	03/28/2025
PO Number:	ATB03202025	Alternate I.D.:		Due Date:	03/28/2026
Gage Location:	NONE SPECIFIED	Description:	STROBOSCOPE	Environment:	Temp: 71 °F RH: 37 %
Cal Location:	LAB			Size / Range:	60 - 99,999 RPM

Event Result: PASS - Gage Meets Specifications / FAIL - Gage did not meet specifications / LTD - Limited Calibration / ADJ - Passed after adjustment / ROV - Report of Value

Notes & Comments:

Asset Notes:

Comments:

Expanded Uncertainty Details:

± 0.3% of Reading + 0.002 RPM

Standards Used:

Asset/Standard	Description	Serial Number	Cal Date	Due Date
RA0661	Thermo Hygrometer	N/A	12/2/2024	12/31/2025
RA0699	UNIVERSAL COUNTER	MY64130003	8/6/2024	8/31/2025

Procedures Used:

Name	Description	Rev Level	Rev Date
P-122	TACHOMETER	1.10	8/6/2019

Test Points:

Checkpoints Marked: A = Adjusted, F = Out of Tolerance

Seq.	Standard	UOM	Tolerance -	Tolerance +	As Found	As Left
1	300.000	fpm	299.970	300.030	299.999	299.999
2	3000.000	fpm	2999.700	3000.300	2999.991	2999.991
3	15000.000	fpm	14998.500	15001.500	14999.994	14999.994

Transcat is accredited by ANSI National Accreditation Board to ISO/IEC 17025:2017 and ANSI/NCSL Z540-1-1994. Transcat certifies that the above listed instrument at the time of calibration meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). The calibrations within the certificate are traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or through NIST accepted intrinsic standards of measurement, or derived by the ratio type of self-calibration techniques. This calibration complies with ANSI/NCSL Z540-1-1994 and ISO/IEC 17025:2017. The measurement results relate only to the items tested or calibrated. Transcat is responsible for all information within the certificate except for customer provided information. Customer provided data is clearly identified. Transcat is not responsible for any effects that customer provided data has on the results. Measurement uncertainties are calculated in accordance with the method described in EA-4/02 and NIST TN1297 using a coverage factor of k = 2, corresponding to a confidence level of approximately 95%. Uncertainties were not considered in all Pass / Fail criteria. This report may not be reproduced, except in full, unless permission for the publication of an approved abstract is obtained in writing from the calibration organization issuing this report.

Calibrated At:

11402 Reading Road
Cincinnati, OH 45241

Facility Responsible:

11402 Reading Road
Cincinnati, OH 45241

Calibrated By:

Electronically Signed By:

SEAN BRADY
CALIBRATION TECHNICIAN - 3/28/2025 10:10:33 AM

Reviewed By:

Electronically Signed By:

Rebecca Kramer
CALIBRATION TECHNICIAN - 3/28/2025 12:36:31 PM